

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO. CONFIRMATION N		
10/522,524	01/26/2005	Kouichi Masuda	2005-0090A 7415		
0 = 0 17	7590 12/05/2007 I, LIND & PONACK L.L.	EXAMINER			
2033 K. STREET, NW			LIU, LI		
SUITE 800 WASHINGTO	N. DC 20006	ART UNIT	PAPER NUMBER		
	·, · ·		2613		
			MAIL DATE	DELIVERY MODE	
		12/05/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application	n No.	Applicant(s)				
Office Action Summary		10/522,52	4	MASUDA ET AL.				
		Examiner		Art Unit				
	·	Li Liu		2613				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status	•							
1)⊠ Res	ponsive to communication(s) filed o	n <u>10 June 2004</u> .						
2a)☐ This	This action is FINAL . 2b) This action is non-final.							
3)☐ Sind	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
clos	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of	f Claims							
4)⊠ Claim(s) <u>1-31 and 35</u> is/are pending in the application.								
4a) Of the above claim(s) is/are withdrawn from consideration.								
5) Claim(s) is/are allowed.								
6)∐ Clai	m(s) is/are rejected.							
• —	m(s) is/are objected to.							
8)⊠ Clai	m(s) <u>1-31 and 35</u> are subject to rest	triction and/or elec	tion requirement.					
Application F	apers	ı						
9) <u></u> The	specification is objected to by the Ex	xaminer.						
10) <u></u> The	drawing(s) filed on is/are: a)	☐ accepted or b)	\square objected to by the $\mathfrak k$	Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority unde	r 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 								
2. Certified copies of the priority documents have been received in Application No								
3. Copies of the certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage								
application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.								
Attachment(s)								
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date								
· ==	Oraftsperson's Patent Drawing Review (PTO- n Disclosure Statement(s) (PTO/SB/08)	· 94 8)	5) Notice of Informal P					
Paper No(s)/Mail Date 6) Other:								

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Election/Restrictions

- 1. This application contains claims directed to the following patentably distinct species:
 - Species 1) Figures 1- 3 and 8-10. (two phase-conjugated optical signals are used for the RF signal transmission).
 - Species 2) Figures 11-16. (two optical wavelengths are used for the RF signal transmission).
 - Species 3) Figures 17-22. (two polarized optical waves are used for the RF signal transmission).
- 2. Species 1-3 are directed to a radio frequency optical transmission system for optically transmitting a radio frequency signal. The related inventions are distinct if the inventions as claimed do not overlap in scope, i.e., are mutually exclusive; the inventions as claimed are not obvious variants; and the inventions as claimed are either not capable of use together or can have a materially different design, mode of operation, function, or effect. See MPEP § 806.050).

In the instant case, each of Species 1-3 has structural design features that differ from the other Species. As framed above, the different Species are distinct or independent because:

- -- The disclosure suggests that each Species is mutually exclusive of the other Species. That is, use of one Species suggests not using any of the other Species.
 - -- The Species are not obvious variants of each other.
 - -- Each Species has materially different structural design features.

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3. Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claim 1 is generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species.

MPEP § 809.02(a).

4. Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement betraversed (37 CFR 11143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

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Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

- 5. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Li Liu whose telephone number is (571)270-1084. The examiner can normally be reached on Mon-Fri, 8:00 am 5:30 pm, alternating Fri off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ken Vanderpuye can be reached on (571)272-3078. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Li Liu November 29, 2007

KENNETT VANDERPUYE

SUPERVISORY PATENT EXAMINER